lumbe		CRF Processing Dat: //0/99 Edited by: (STIC)
Chang	ed a file from non-ASCII to ASCII	Verified by:(STIC s
Chang	ed the margins in cases where the sequence te	xt was "wrapped" down to the next line.
Edited	a format error in the Current Application Data so	ection, specifically:
	the Current Application Data section with the ac nt was the prior application data; or oth	ctual current number. The number inputted by the er
Added	the mandatory heading and subheadings for "C	urrent Application Data".
Edited	the "Number of Sequences" field. The applican	t spelled out a number instead of using an integer.
Chang	ed the spelling of a mandatory field (the heading	·
Соггес	ed the SEQ ID NO when obviously incorrect. T	he sequence numbers that were edited were:
nserte	d or corrected a nucleic number at the end of a	nucleic line. SEQ ID NO's edited:
	ed subheading placement. All responses must nt placed a response below the subheading, this	be on the same line as each subheading. If the swas moved to its appropriate place.
Inserte	d colons after headings/subheadings. Headings	s edited included:
Delete	d extra, invalid, headings used by an applicant,	specifically:
	d: non-ASCII "garbage" at the beginning/enge numbers throughout text; definition of the control	d of files;
Inserte	d mandatory headings, specifically:	
Correc	ted an obvious error in the response, specificall	y:
Edited	identifiers where upper case is used but lower o	case is required, or vice versa.
Correc	ted an error in the Number of Sequences field, s	specifically:
A "Har	d Page Break" code was inserted by the applica	unt. All occurrences had to be deleted.
	- · · · · · · · · · · · · · · · · · · ·	nd adjusted the "(A)Length:" field accordingly (error

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

RAW SEQUENCE LISTING PATENT APPLICATION US/09/451,939

DATE: 12/17/1999 TIME: 04:38:12

INPUT SET: S34265.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

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SEQUENCE LISTING
        1
        2
            (1)
                   General Information:
                                                                       Does Not Comply
        3
                                                                   Corrected Diskette Needed
        4
        5
                 (i) APPLICANTS: Miao, Ningning
        6
                                  Wang, Monica
        7
                                  Mahanthappa, Nagesh K.
        8
                                  Jin, Ping
                                  Pang, Kevin
        9
       10
       11
                (ii) TITLE OF INVENTION: Method of Treating Dopaminergic and
                      GABA-nergic Disorders
       12
       13
       14
               (iii) NUMBER OF SEQUENCES: 22
       15
       16
                (iv) CORRESPONDENCE ADDRESS:
       17
                       (A) ADDRESSEE: FOLEY, HOAG & ELIOT LLP
       18
                       (B) STREET: ONE POST OFFICE SQUARE
                       (C) CITY: Boston
       19
       20
                       (D) STATE: MA
                       (E) COUNTRY: USA
       21
                       (F) ZIP: 02109
       22
       23
                 (v) COMPUTER READABLE FORM:
       24
                       (A) MEDIUM TYPE: Floppy disk
       25
       26
                       (B) COMPUTER: IBM PC compatible
       27
                       (C) OPERATING SYSTEM: PC-DOS/MS-DOS
                       (D) SOFTWARE: AscII (text)
       28
       29
                (vi) CURRENT APPLICATION DATA;
       30
                       (A) APPLICATION NUMBER US 08/900,220
       31
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                       (B) FILING DATE: (24-JUL-1997
       32
                                                             LWII) PRIOR APP DATA
                       (C) CLASSIFICATION:
       33
       34
       35
              (viii) ATTORNEY/AGENT INFORMATION:
       36
                       (A) NAME: Vincent, Matthew P.
                       (B) REGISTRATION NUMBER: 36,709
       37
       38
                       (C) REFERENCE/DOCKET NUMBER: ONV-044.01
       39
                (ix) TELECOMMUNICATION INFORMATION:
       40
                       (A) TELEPHONE: (617) 832-1000
       41
                       (B) TELEFAX: (617) 832-7000
       42
       43
       44
       45
            (2) INFORMATION FOR SEQ ID NO:1:
                 (i) SEQUENCE CHARACTERISTICS:
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RAW SEQUENCE LISTING PATENT APPLICATION US/09/451,939

DATE: 12/17/1999 TIME: 04:38:13

INPUT SET: S34265.raw

INPUT SET: S34265.	raw
(A) LENGTH: 1277 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: both (D) TOPOLOGY: linear	
51 52 (ii) MOLECULE TYPE: cDNA	
53 54 (ix) FEATURE: 55 (A) NAME/KEY: CDS 56 (B) LOCATION: 11275	
57 58 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:	48
59 60 ATG GTC GAA ATG CTG CTG TTG ACA AGA ATT CTC TTG GTG GGC 120 60 ATG GTC GAA ATG CTG CTG TTG ACA AGA ATT CTC TTG GTG GGC 120 60 ATG GTC GAA ATG CTG CTG TTG ACA AGA ATT CTC TTG GTG GGC 120 60 ATG GTC GAA ATG CTG CTG TTG ACA AGA ATT CTC TTG GTG GGC 120 61 ATG GTC GAA ATG CTG CTG TTG ACA AGA ATT CTC TTG GTG GGC 120 61 ATG GTC GAA ATG CTG CTG TTG ACA AGA ATT CTC TTG GTG GGC 120 61 ATG GTC GAA ATG CTG CTG TTG ACA AGA ATT CTC TTG GTG GGC 120 61 ATG GTC GAA ATG CTG CTG TTG ACA AGA ATT CTC TTG GTG GGC 120 61 ATG GTC GAA ATG CTG CTG TTG ACA AGA ATT CTC TTG GTG GGC 120 61 ATG GTC GAA ATG CTG CTG TTG ACA AGA ATT CTC TTG GTG GGC 120 61 ATG GTC GAA ATG CTG CTG TTG ACA AGA ATT CTC TTG GTG GGC 120 61 ATG GTC GAA ATG CTG CTG TTG ACA AGA ATT CTC TTG GTG GGC 120 61 ATG GTC GAA ATG CTG CTG TTG ACA AGA ATT CTC TTG GTG GGC 120 61 ATG GTC GAA ATG CTG CTG TTG ACA AGA ATT CTC TTG GTG GGC 120 61 ATG GTC GAA ATG CTG CTG TTG ACA AGA ATT CTC TTG GTG GGC 120 61 ATG GTC GAA ATG CTG CTG TTG ACA AGA ATT CTC TTG GTG GGC 120 61 ATG GTG GTG GTG GTG GTG GTG GTG GTG GTG	
62 1 63 64 TGC GCT CTT TTA GTC TCC TCT GGG CTG ACT TGT GGA CCA GGC AGG GGC 64 TGC GCT CTT TTA GTC TCC TCT GGG CTG ACT TGT GGA CCA GGC AGG GGC 63 64 TGC GCT CTT TTA GTC TCC TCT GGG CTG ACT TGT GGA CCA GGC AGG GGC 63 64 TGC GCT CTT TTA GTC TCC TCT GGG CTG ACT TGT GGA CCA GGC AGG GGC 63 64 TGC GCT CTT TTA GTC TCC TCT GGG CTG ACT TGT GGA CCA GGC AGG GGC 63 64 TGC GCT CTT TTA GTC TCC TCT GGG CTG ACT TGT GGA CCA GGC AGG GGC 63 64 TGC GCT CTT TTA GTC TCC TCT GGG CTG ACT TGT GGA CCA GGC AGG GGC 63 64 TGC GCT CTT TTA GTC TCC TCT GGG CTG ACT TGT GGA CCA GGC AGG GGC 64 TGC GCT CTT TTA GTC TCC TCT GGG CTG ACT TGT GGA CCA GGC AGG GGC 64 TGC GCT CTT TTA GTC TCC TCT GGG CTG ACT TGT GGA CCA GGC AGG GGC 65 TGC GCT CTT TTA GTC TCC TCT GGG CTG ACT TGT GGA CCA GGC AGG GGC 66 TGC GCT CTT TTA GTC TCC TCT GGG CTG ACT TGT GGA CCA GGC AGG GGC 66 TGC GCT CTT TTA GTC TCC TCT GGG CTG ACT TGT GGA CCA GGC AGG GGC 67 TGC GCT CTT TTA GTC TCC TCT GGG CTG ACT TGT GGA CCA GGC AGG GGC 67 TGC GCT CTT TTA GTC TCC TCT GGG CTG ACT TGT GGA CCA GGC AGG GGC 67 TGC GCT CTT TTA GTC TCC TCT GGG CTG ACT TGT GGG ACT	96
66 67 68 ATT GGA AAA AGG AGG CAC CCC AAA AAG CTG ACC CCG TTA GCC TAT AAG 68 ATT GGA AAA AGG AGG CAC CCC AAA AAG CTG ACC CCG TTA GCC TAT AAG 68 ATT GGA AAA AGG AGG CAC CCC AAA AAG CTG ACC CCG TTA GCC TAT AAG 68 ATT GGA AAA AGG AGG CAC CCC AAA AAG CTG ACC CCG TTA GCC TAT AAG 68 ATT GGA AAA AGG AGG CAC CCC AAA AAG CTG ACC CCG TTA GCC TAT AAG 68 ATT GGA AAA AGG AGG CAC CCC AAA AAG CTG ACC CCG TTA GCC TAT AAG 68 ATT GGA AAA AGG AGG CAC CCC AAA AAG CTG ACC CCG TTA GCC TAT AAG 68 ATT GGA AAA AGG AGG CAC CCC AAA AAG CTG ACC CCG TTA GCC TAT AAG 68 ATT GGA AAA AGG AGG CAC CCC AAA AAG CTG ACC CCG TTA GCC TAT AAG 68 ATT GGA AAA AGG AGG CAC CCC AAA AAG CTG ACC CCG TTA GCC TAT AAG 68 ATT GGA AAA AGG AGG CAC CCC AAA AAG CTG ACC CCG TTA GCC TAT AAG 68 ATT GGA AAA AGG AGG CAC CCC AAA AAG CTG ACC CCG TTA GCC TAT AAG 68 ATT GGA AAA AGG AGG CAC CCC AAA AAG CTG ACC CCG TTA GCC TAT AAG 68 ATT GGA AAA AGG AGG CAC CCC AAA AAG CTG ACC CCG TTA GCC TAT AGG 68 ATT GGA AAA AGG AGG CAC CCC AAA AAG CTG ACC CCG TTA GCC TAT AGG 68 ATT GGA AAA AGG AGG CAC CCC AAA AAG CTG ACC CCG TAT AGG AGG CAC CCC AAAA AAG CTG ACC CCG TAT AGG AGG CAC CCC AAA AAG CTG ACC CCG TAT AGG AGG CAC CCC AAA AAG CTG ACC CCG TAT AGG AGG CAC CCC AAA AAG CTG ACC CCG TAT AGG AGG CAC CCC AAA AAG CTG ACC CCG TAT AGG AGG CAC CCC AAA AAG CTG ACC CCG TAT AGG AGG CAC CCC AAA AAG CTG ACC CCG TAT AGG AGG CAC CCC AAA AAG CTG ACC CCG TAT AGG AGG CAC CCC AAA AAG CTG ACC CCG TAT AGG AGG CAC CCC AAA AAG CTG ACC CCG TAT AGG AGG CAC CCC AAA AAG CTG ACC CCG TAT AGG AGG CAC CCC AAA AAG CTG ACC CCC AAA AAG CTG ACC CCC AAA AAG AAG CTG ACC CCC AAA AAG CTG ACC CCC AAA AAG CTG ACC CCC AAA AAG CTG ACC CCC ACC ACC ACC ACC CCC AAA AAG CTG ACC CCC ACC ACC ACC ACC ACC ACC ACC AC	144
70 71 72 CAG TTT ATT CCC AAT GTG GCA GAG AAG ACC CTA GGG GCC AGT GGA AGA 71 72 CAG TTT ATT CCC AAT GTG GCA GAG AAG ACC CTA GGG GCC AGT GGA AGA 71 72 CAG TTT ATT CCC AAT GTG GCA GAG AAG ACC CTA GGG GCC AGT GGA AGA 71 72 CAG TTT ATT CCC AAT GTG GCA GAG AAG ACC CTA GGG GCC AGT GGA AGA 71 72 CAG TTT ATT CCC AAT GTG GCA GAG AAG ACC CTA GGG GCC AGT GGA AGA 71 72 CAG TTT ATT CCC AAT GTG GCA GAG AAG ACC CTA GGG GCC AGT GGA AGA 71 72 CAG TTT ATT CCC AAT GTG GCA GAG AAG ACC CTA GGG GCC AGT GGA AGA 73 74 CAG TTT ATT CCC AAT GTG GCA GAG AAG ACC CTA GGG GCC AGT GGA AGA 75 CAG TTT ATT CCC AAT GTG GCA GAG AAG ACC CTA GGG GCC AGT GGA AGA 76 CAG TTT ATT CCC AAT GTG GCA GAG AAG ACC CTA GGG GCC AGT GGA AGA 76 CAG TTT ATT CCC AAT GTG GCA GAG AAG ACC CTA GGG GCC AGT GGA AGA 77 CAG TTT ATT CCC AAT GTG GCA GAG AAG ACC CTA GGG GCC AGT GGA AGA 76 CAG TTT ATT CCC AAT GTG GCA GAG AAG ACC CTA GGG GCC AGT GAGA 77 CAG TTT ATT CCC AAT GTG GCA GAG AAG ACC CTA GGG GCC AGT GAGA 77 CAG TTT ATT CCC AAT GTG GCA GAG AAG ACC CTA GGG GCC AGT GAGA 78 CAG TTT ATT CCC AAT GTG GCA GAG AAG ACC CTA GGG GCC AGT GAGA ACC CTA GGG GCC AGT GAGA ACC CTA GTG GAGA	192
74 50 75 76 TAT GAA GGG AAG ATC ACA AGA AAC TCC GAG AGA TTT AAA GAA CTA ACC 76 TAT GAA GGG AAG ATC ACA AGA AAC TCC GAG AGA TTT AAA GAA CTA ACC 76 TAT GAA GGG AAG ATC ACA AGA AAC TCC GAG AGA TTT AAA GAA CTA ACC 77 TAT GAA GGG AAG ATC ACA AGA AAC TCC GAG AGA TTT AAA GAA CTA ACC 77 TAT GAA GGG AAG ATC ACA AGA AAC TCC GAG AGA TTT AAA GAA CTA ACC 78 TAT GAA GGG AAG ATC ACA AGA AAC TCC GAG AGA TTT AAA GAA CTA ACC	240
78 65 79 80 CCA AAT TAC AAC CCT GAC ATT ATT TTT AAG GAT GAA GAG AAC ACG GGA 81 Pro Asn Tyr Asn Pro Asp Ile Ile Phe Lys Asp Glu Glu Asn Thr Gly 95	288
85 82 83 84 GCT GAC AGA CTG ATG ACT CAG CGC TGC AAG GAC AAG CTG AAT GCC CTG 85 Ala Asp Arg Leu Met Thr Gln Arg Cys Lys Asp Lys Leu Asn Ala Leu 85 Ala Asp Arg Leu Met Thr Gln 105	336
86 100 87 88 GCG ATC TCG GTG ATG AAC CAG TGG CCC GGG GTG AAG CTG CGG GTG ACC 89 Ala Ile Ser Val Met Asn Gln Trp Pro Gly Val Lys Leu Arg Val Thr 89 Ala Ile Ser Val Met Asn Gln Trp 120	384
90 115 90 125 91 92 GAG GGC TGG GAC GAG GAT GGC CAT CAC TCC GAG GAA TCG CTG CAC TAC 93 Glu Gly Trp Asp Glu Asp Gly His His Ser Glu Glu Ser Leu His Tyr 93 Glu Gly Trp Asp Glu Asp Gly His His Ser Glu Glu Ser Leu His Tyr 135	432
94 130 135 94 130 135 95 96 GAG GGT CGC GCC GTG GAC ATC ACC ACG TCG GAT CGG GAC CGC AGC AAG 97 Glu Gly Arg Ala Val Asp Ile Thr Thr Ser Asp Arg Asp Arg Ser Lys 98 145 99	480

RAW SEQUENCE LISTING PATENT APPLICATION US/09/451,939

DATE: 12/17/1999 TIME: 04:38:13

PATENT APPLICATION US/09/451,937	
PATENT APPLICATION OBJECT: S34265.r	aw 528
TGG GTC	540
TAC GGA ATG CTG GCC CGC CTC GCC GTC GAG GCC GGC TTC GAC TGG TAC GGA ATG CTG GCC CGC CTC GCC GTC GAG GCC GGC TTC GAC TGG TAC GGA ATG CTG GCC CGC CTC GCC GTC GAG GCC GGC TTC GAC TGG TTC	
100 TAC GGA ATG CTG GCC Coo Leu Ala Val Glu Ala GI 175	
	576
AAN CAA AAC	5/0
102 103 104 TAC TAC GAG TCC AAG GCG CAC ATC CAC TGC TCC GTC AAA GCA GAT AS 104 105 Tyr Tyr Glu Ser Lys Ala His Ile His Cys Ser Val Lys Ala Glu Asn 190 105 Tyr Tyr Glu Ser Lys Ala His Ile His Cys Ser Val Lys Ala GTG 185	
103 TAC TAC GAG TCC AAG GCG GTG 104 TAC TAC GAG GCG GTG 104 TAC TAC GAG GCG GTG 105 TAC TAC GAG GCG GTG TAC TAC TAC GAG GCG GTG TAC	
	624
	624
106 107 108 GCG AAA TCA GGA GGC TGC TTC CCT GGC TCA GCC ACA Val	
105 TYP TYP 180 180 106 107 108 TCA GTG GCA AAA TCA GGA GGC TGC TTC CCT GGC TCA GCC ACA GTG 108 TCA GTG GCA AAA TCA GGA GGC TGC TTC CCT GGC TCA GCC ACA GTG 109 Pro Gly Ser Ala Thr Val 205	
	672
173	6/2
110 111 112 CAC CTG GAG CAT GGA GGC ACC AAG CTG GTG AAG GAC CTG AGC CTG GIY 112 Leu Glu His Gly Gly Thr Lys Leu Val Lys Asp Leu Ser Pro Gly 113 His Leu Glu His Gly Gly Thr Lys Leu Val Lys Asp Leu Ser Pro Gly 220	
112 CAC CTG GAG CAT GGA GGC AGG Leu Val Lys Asp Leu 220	
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211) mλ/ Δ(-) GAC	720
114 210 114 210 115 CTG GCT GCT GAC GCG GAC GGC CGG CTG CTC TAC AG1 115 115 CTG GCT GCT GAC GCG GAC GCG CTG CTG TAC AG1 115 ASP	
116 GAC CGC GTG CTG GCT GCT GAR Ala Asp Gly Arg Leu hea 11 240	
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	760
119 Ser Ser Arg Lys Leu Phe Tyr	
TTC CTC ACC TTC CTC GAC Acg Met Asp Ser Ser Arg My 255	
-1 - TON THE FINO 200	816
10C (1C4 GCC	810
123 123 123 124 125 126 127 128 129 120 120 120 120 120 120 120	
124 GTC ATC GAG ACG CGG CAG COO Arg Ala Arg Leu Leu Leu 270	
77-1 TIE GIU 144 3 265	864
ZOO NA GOO	904
127 127 127 127 127 127 127 128 128 129 120 120 120 120 120 120 120 120 120 120	
128 CAC CTG CTC TTT GTG GCC OF Gln His Asn Gln Sel 325	
TAIL LEU FILC TO TOO	912
	914
130 131 132 TCC ACC AGT GGC CAG GCG CTC TTC GCC AGC AAC GTG AAG CCT GGC GTG 133 Ser Thr Ser Gly Gln Ala Leu Phe Ala Ser Asn Val Lys Pro Gly Gln 133 Ser Thr Ser Gly Gln Ala Leu Phe Ala Ser Asn Val Lys Pro Gly Gln 295	
132 TCC ACC AGT GGC CAG GGG Leu Phe Ala Ser Agn var 27	
and Thr Sel Gil Gil	960
	500
135 GTG CTG GGC GAG GGC GGG CAG CAG CAG Pro Ala Ser	
133 Ser Inc 295 134 290 135 136 CGT GTC TAT GTG CTG GGC GAG GGC GGG CAG CAG CTG CTG CCG GCG TCT 136 136 CGT GTC TAT GTG CTG GGC GAG GGC GAG GAG CAG CAG CTG CTG CCG GCG TCT 137 315 315	
1701 VVI VXA	1008
- 30E	100
138 305 139 140 GTC CAC AGC GTC TCA TTG CGG GAG GAG GCG TCC GGA GCC TAC GGS 141 Val His Ser Val Ser Leu Arg Glu Glu Ala Ser Gly Ala Tyr Ala Pro 335 330 330	
140 GTC CAC AGC GTC TCA Leu Arg Glu Glu Ala Sel GIV 335	
1 U10 SEL VA 330	1056
	1000
143 and CAG GGC ACC ATC CTC ATC AAC CGG Val Leu Ala Ser Cys	
144 CTC ACC GCC CAG GGS Thr Ile Leu Ile ASH Arg 350	
145	1104
and mmc CCA CCA	
147 ATC GAG GAG CAC AGT TGG GCC CAI TO Ala Phe Ala Pro	
148 TAC GCC GTC ATC GAS GIV His Ser Trp Ala HIS 129 365	
760	1152
150 355	
151 THE THE GOT CAG GGG CTG CTG GCC GCC CTC 150	
149 TYP ATC 150 355 360 150 151 152 TTC CGC TTG GCT CAG GGG CTG CTG GCC GCC CTC TGC CCA GAT GGG GCC	

RAW SEQUENCE LISTING PATENT APPLICATION US/09/451,939

DATE: 12/17/1999 TIME: 04:38:14

INPUT SET: S34265.raw Phe Arg Leu Ala Gln Gly Leu Leu Ala Ala Leu Cys Pro Asp Gly Ala ATC CCT ACT GCC GCC ACC ACC ACC ACT GGC ATC CAT TGG TAC TCA CGG Ile Pro Thr Ala Ala Thr Thr Thr Gly Ile His Trp Tyr Ser Arg CTC CTC TAC CGC ATC GGC AGC TGG GTG CTG GAT GGT GAC GCG CTG CAT Leu Leu Tyr Arg Ile Gly Ser Trp Val Leu Asp Gly Asp Ala Leu His CCG CTG GGC ATG GTG GCA CCG GCC AGC TG Pro Leu Gly Met Val Ala Pro Ala Ser (2) INFORMATION FOR SEQ ID NO:2: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1190 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: both (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (ix) FEATURE: (A) NAME/KEY: CDS (B) LOCATION: 1..1191 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: ATG GCT CTG CCG GCC AGT CTG TTG CCC CTG TGC TGC TTG GCA CTC TTG Met Ala Leu Pro Ala Ser Leu Leu Pro Leu Cys Cys Leu Ala Leu Leu GCA CTA TCT GCC CAG AGC TGC GGG CCG GGC CGA GGA CCG GTT GGC CGG Ala Leu Ser Ala Gln Ser Cys Gly Pro Gly Arg Gly Pro Val Gly Arg CGG CGT TAT GTG CGC AAG CAA CTT GTG CCT CTG CTA TAC AAG CAG TTT Arg Arg Tyr Val Arg Lys Gln Leu Val Pro Leu Leu Tyr Lys Gln Phe GTG CCC AGT ATG CCC GAG CGG ACC CTG GGC GCG AGT GGG CCA GCG GAG Val Pro Ser Met Pro Glu Arg Thr Leu Gly Ala Ser Gly Pro Ala Glu GGG AGG GTA ACA AGG GGG TCG GAG CGC TTC CGG GAC CTC GTA CCC AAC Gly Arg Val Thr Arg Gly Ser Glu Arg Phe Arg Asp Leu Val Pro Asn TAC AAC CCC GAC ATA ATC TTC AAG GAT GAG GAG AAC AGC GGC GCA GAC Tyr Asn Pro Asp Ile Ile Phe Lys Asp Glu Glu Asn Ser Gly Ala Asp

RAW SEQUENCE LISTING PATENT APPLICATION US/09/451,939

DATE: 12/17/1999 TIME: 04:38:14

RAW SEQUENCE LISTING PATENT APPLICATION US/09/451,939		
RAW SEQUELICATION US/07/100	INPUT SET: S34265.ra	W
PATENT AT 22	INPUT SET. 50	
	95	
90	ATC	336
206 207 208 CGC CTG ATG ACA GAG CGT TGC AAA GAG CGG GTG AAC GCT C 208 CGC CTG ATG ACA GAG CGT TGC AAA GAG CGG GTG AAC ASA Ala L 208 105 105	TA GCC AIC	
206 AAA GAG CGG GTG AAA AA AAA AAA AAA AAA AAA AAA AA	eu Ala IIe	
207 ATG ACA GAG CGT TGC LIVE Glu Arg Val ADI	.10	
206 207 208 CGC CTG ATG ACA GAG CGT TGC AAA GAG CGG GTG AAC GCT C 209 Arg Leu Met Thr Glu Arg Cys Lys Glu Arg Val Asn Ala L 209 100 100 100 100 100 100	- 000	384
209 Arg Leu Mes 100	ACT GAA GGC	
210 CCC GGA GTA CGC CTA COT Val	Thr Glu Gry	
208 CGC CTG ATC Thr Glu Arg Cys 1 105 209 Arg Leu Met Thr Glu Arg Cys 1 105 210 211 212 GCG GTG ATG AAC ATG TGG CCC GGA GTA CGC CTA CGT GTG ACC GCG GTG ATG AAC ATG TGG CCC GGA GTA CGC CTA CGT GTG ACC GCG GTG ATG AAC ATG TGG CCC GGA GTA CGC CTA CGT GTG ACC GCG GTA CGC CTA CGT GTG ACC GCC GGA GTA CGC CTA CGT GTG ACC GCC GGA GTA CGC CTA CGT GTG ACC GTG GTG ATG ACC GTG GTG ATG ACC GTG GTG ATG ACC GTG CACC GTG ATG ACC GTG ATG ACC GTG ATG ACC GTG ACC GTG ATG ACC ATG ACC GTG ATG ACC ACC GTG ATG ACC A		
212 GCG GTG AIO Met Trp Pio G17	agg	432
212 GCG GIG Met Asn Met TTP F10 213 Ala Val Met Asn Met TTP F10 214 215 216 TGG GAC GAG GAC GGC CAC CAC GCA CAG GAT TCA CTC CAC 217 218 219 TGG GAC GAG GAC GGC CAC CAC GCA CAG GAT TCA CTC CAC 219 TGG GAC GAG GAC GGC CAC CAC GCA CAG GAT TCA CTC CAC 210 TGG GAC GAG GAC GGC CAC CAC GCA CAG GAT TCA CTC CAC 211 TGG GAC GAG GAC GGC CAC CAC GCA CAG GAT TCA CTC CAC 212 TGG GAC GAG GAC GGC CAC CAC GCA CAG GAT TCA CTC CAC 213 TGG GAC GAG GAC GGC CAC CAC GCA CAG GAT TCA CTC CAC 214 TGG GAC GAG GAC GGC CAC CAC GCA CAG GAT TCA CTC CAC 215 TGG GAC GAG GAC GGC CAC CAC GCA CAG GAT TCA CTC CAC 216 TGG GAC GAG GAC GGC CAC CAC GCA CAG GAT TCA CTC CAC 217 TGG GAC GAG GAC GGC CAC CAC GCA CAG GAT TCA CTC CAC 218 TGG GAC GAG GAC GGC CAC CAC GCA CAG GAT TCA CTC CAC 219 TGG GAC GAG GAC GGC CAC CAC GCA CAG GAT TCA CTC CAC 210 TGG GAC GAG GAC GGC CAC CAC GCA CAG GAT TCA CTC CAC 210 TGG GAC GAG GAC GGC CAC CAC CAC GCA CAG GAT TCA CTC CAC 210 TGG GAC GAG GAC GGC CAC CAC CAC GCA CAC GCA CAC GCA CAC GCA CAC GCA CAC CAC	TAC GAA GGC	
214 CAC GCA CAG GAT TCA CIT	Tyr Glu GIY	
215 GAG GAG GAC GGC CAC CAC Gold Asp Ser Heat 140		
213 Ala Val 115 214 215 216 TGG GAC GAC GGC CAC CAC GCA CAG GAT TCA CTC CAC 217 Trp Asp Glu Asp Gly His His Ala Gln Asp Ser Leu His 218 130 219 130	- CIT	480
218 130 ACG TCT GAC CGT GAC ASP	Lys Tyr Gly	
219 ard GGC TTG GAC ATC ACC ACG 1CT Asp Arg Asp Arg 155	160	
220 CGT GCC TIG GAS Ile Thr Thr Sel 155		528
217 Trp Asp 218 130 219 220 CGT GCC TTG GAC ATC ACC ACG TCT GAC CGT GAC ASP 221 Arg Ala Leu Asp Ile Thr Thr Ser Asp Arg Asp Arg Asp 222 145 223 224 TTG TTG GCG CGC CTA GCT GTG GAA GCC GGA TTC GAC TGC 223 224 TTG TTG GCG CGC CTA GCT GTG GAA GCC GGA TTC GAC TGC 227 TTG TTG GCG CGC CTA GCT GTG GAA GCC GGA TTC GAC TGC 228 TTG TTG GCG CGC CTA GCT GTG GAA GCC GGA TTC GAC TGC 229 TTG TTG GCG CGC CTA GCT GTG GAA GCC GGA TTC GAC TGC 220 TTG TTG GCG CGC CTA GCT GTG GAA GCC GGA TTC GAC TGC 221 TTG TTG GCG CGC CTA GCT GTG GAA GCC GGA TTC GAC TGC 222 TTG TTG GCG CGC CTA GCT GTG GAA GCC GGA TTC GAC TGC 223 TTG TTG GCG CGC CTA GCT GTG GAA GCC GGA TTC GAC TGC 221 TTG TTG GCG CGC CTA GCT GTG GAA GCC GGA TTC GAC TGC 222 TTG TTG GCG CGC CTA GCT GTG GAA GCC GGA TTC GAC TGC 223 TTG TTG GCG CGC CTA GCT GTG GAA GCC GGA TTC GAC TGC 224 TTG TTG GCG CGC CTA GCT GTG GAA GCC GGA TTC GAC TGC 225 TTG TTG GCG CGC CTA GCT GTG GAA GCC GGA TTC GAC TGC 226 TTG TTG GCG CGC CTA GCT GTG GAA GCC GGA TTC GAC TGC 227 TTG TTG GCG CGC CTA GCT GTG GAA GCC GGA TTC GAC TGC 228 TTG TTG GCG CGC CTA GCT GTG GAA GCC GGA TTC GAC TGC 229 TTG TTG GCG CGC CTA GCT GTG GAA GCC GGA TTC GAC TGC 220 TTG TTG GCG CGC CTA GCT GTG GAA GCC GGA TTC GAC TGC GCC TGC GCC CTA GCT GCT GCC GCC CTA GCC GCC CTA GCC GCC CTA GCT GCC GCC CTA GCC GC	G GTC TAC TAC	
222 145 CTG GAA GCC GGA TTC GAC TO	n Val Tyr Tyr	
221 Arg Ala 150 222 145 223 224 TTG TTG GCG CGC CTA GCT GTG GAA GCC GGA TTC GAC TGC 225 Leu Leu Ala Arg Leu Ala Val Glu Ala Gly Phe Asp Tr 165	175	
224 TTG TTG GCG CGG Leu Ala Val Glu 170	_	576
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